

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P624511

Luminaire Tested: **IFLD-M-SA4B-927-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624511
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-927-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (64) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

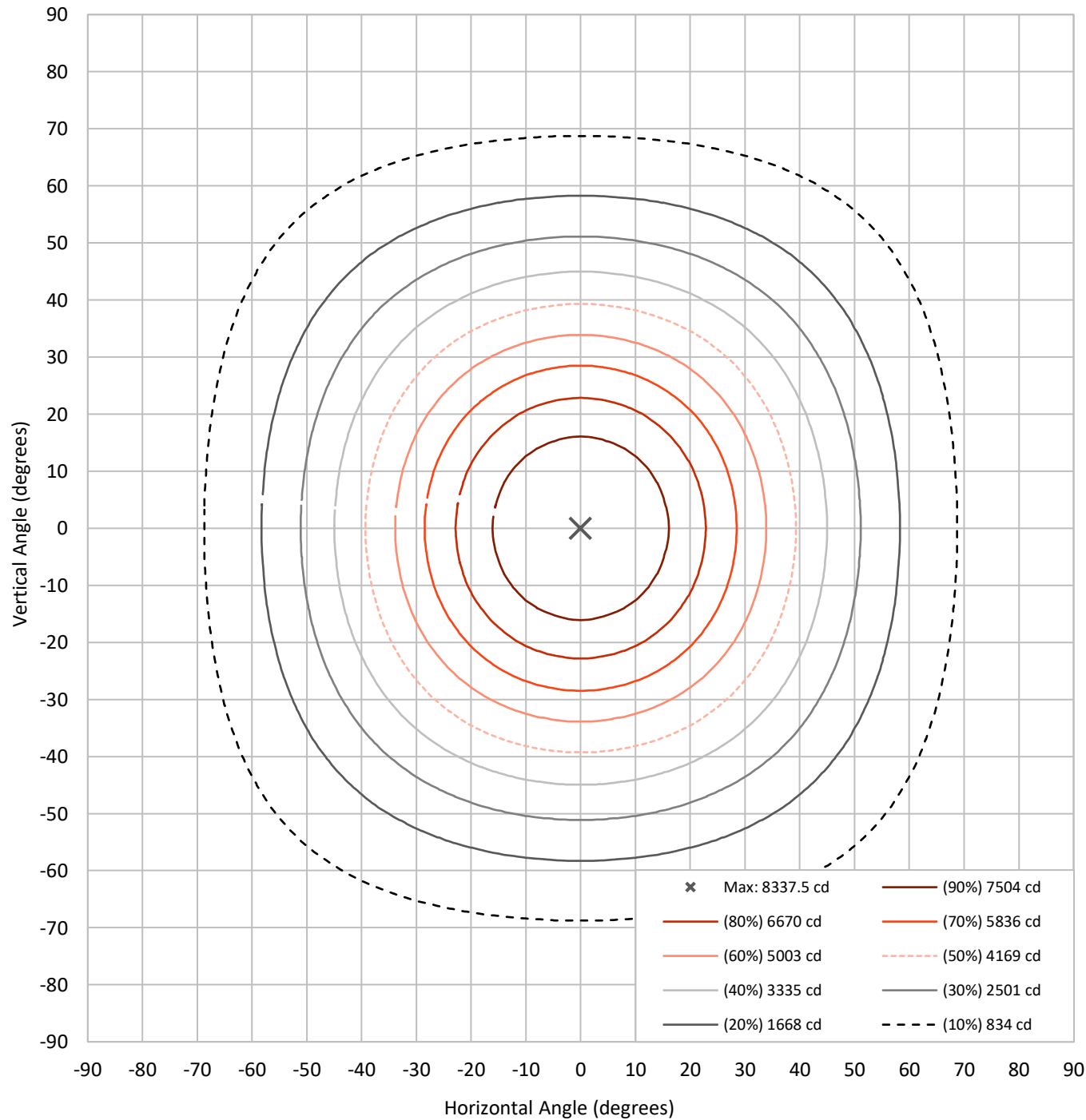
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	15011.9 lumens	Max Intensity:	8337.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	90.4 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	6495.5 lumens	Field Lumens:	10636.1 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	166.1		
Input Voltage (V):	120		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		





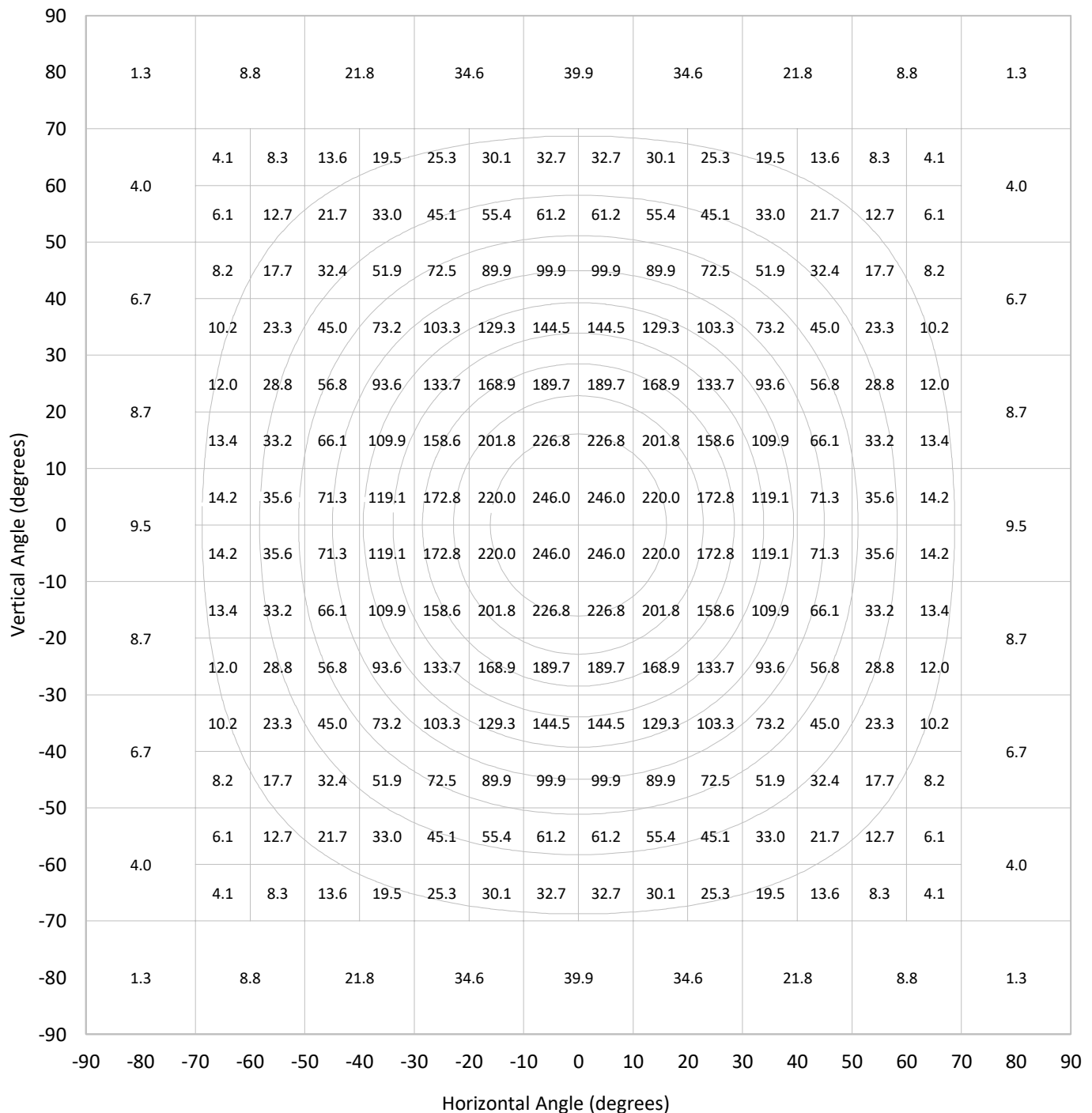
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Iso-Candela Plot



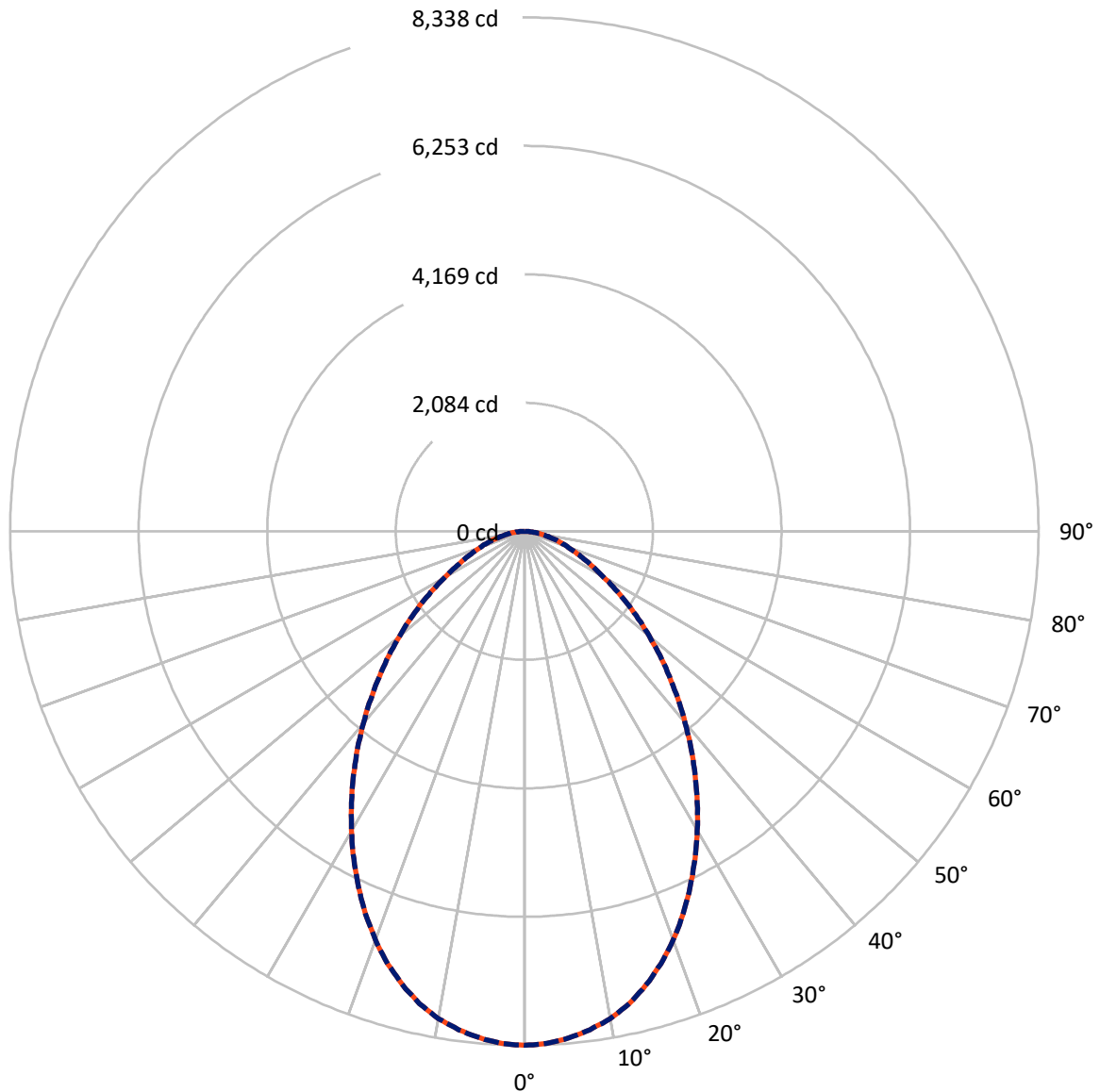
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Lumen Table



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Luminous Intensity Polar Plot

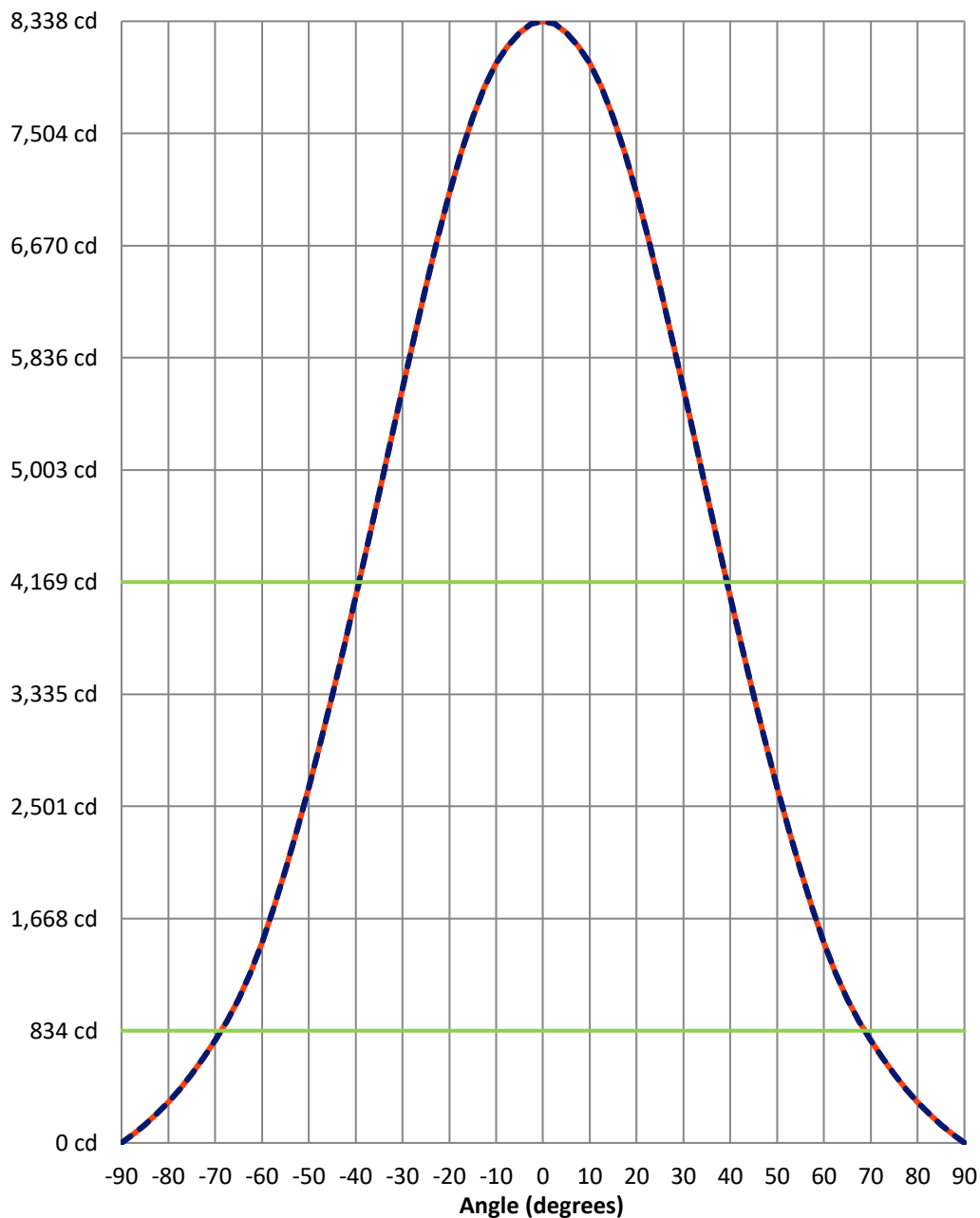


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 6495.5
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 10636.1
Efficiency: 70.9%

Spill:

Lumens: 4375.7
Efficiency: 29.1%

— Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 0-Deg

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FIELD
BEAM

CANDELA DISTRIBUTION:

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	64.2	64.2	64.2	64.2	64.2	64.2	64.2	61.0	61.0	59.5	57.9
85°	134.6	134.6	134.6	134.6	134.6	131.5	129.9	128.3	126.8	123.6	122.1
82.5°	216.0	216.0	216.0	216.0	212.9	209.7	208.2	205.0	201.9	197.2	192.5
80°	302.1	302.1	302.1	302.1	297.4	294.2	289.6	286.4	281.7	275.5	269.2
77.5°	400.7	400.7	400.7	396.0	392.9	388.2	383.5	377.2	370.9	363.1	353.7
75°	511.8	511.8	511.8	505.5	500.8	496.1	488.3	480.5	471.1	460.2	447.6
72.5°	632.3	632.3	632.3	624.5	619.8	612.0	602.6	591.6	580.7	566.6	550.9
70°	762.2	762.2	762.2	752.8	745.0	737.2	724.7	712.1	696.5	680.8	662.1
67.5°	903.1	903.1	903.1	892.1	882.7	871.8	857.7	842.0	823.3	801.4	779.4
65°	1067.4	1067.4	1061.2	1051.8	1040.8	1025.2	1008.0	986.0	962.6	934.4	904.7
62.5°	1261.5	1261.5	1252.1	1241.2	1227.1	1206.7	1183.2	1155.1	1122.2	1086.2	1050.2
60°	1486.9	1486.9	1475.9	1461.8	1441.5	1416.5	1385.1	1349.2	1308.5	1263.1	1219.2
57.5°	1746.7	1746.7	1732.6	1713.8	1688.8	1657.5	1618.4	1573.0	1521.3	1465.0	1410.2
55°	2028.4	2028.4	2011.2	1989.3	1959.6	1922.0	1875.0	1821.8	1759.2	1695.0	1624.6
52.5°	2327.4	2327.4	2307.0	2282.0	2247.5	2203.7	2150.5	2087.9	2015.9	1940.8	1857.8
50°	2642.0	2642.0	2618.5	2590.3	2551.2	2499.5	2438.5	2366.5	2286.7	2199.0	2103.5
47.5°	2978.5	2978.5	2951.9	2919.0	2872.0	2812.6	2740.6	2657.6	2566.8	2468.2	2360.2
45°	3324.4	3324.4	3294.6	3257.1	3205.4	3138.1	3058.3	2978.5	2862.6	2748.4	2623.2
42.5°	3684.3	3684.3	3649.9	3607.7	3548.2	3474.6	3383.8	3280.5	3166.3	3037.9	2901.8
40°	4058.4	4058.4	4019.3	3970.8	3905.0	3820.5	3718.8	3603.0	3474.6	3332.2	3181.9
37.5°	4440.3	4440.3	4396.5	4343.3	4269.7	4175.8	4061.5	3933.2	3789.2	3631.1	3465.2
35°	4825.3	4825.3	4776.8	4718.9	4637.5	4534.2	4410.6	4268.1	4108.5	3936.3	3750.1
32.5°	5218.2	5218.2	5165.0	5099.2	5006.9	4892.6	4756.5	4601.5	4440.3	4240.0	4036.5
30°	5606.3	5606.3	5548.4	5476.4	5377.8	5252.6	5103.9	4933.3	4743.9	4538.9	4319.8
27.5°	5988.2	5972.6	5924.1	5847.4	5739.4	5606.3	5445.1	5260.4	5055.4	4830.0	4595.3
25°	6363.9	6346.6	6293.4	6208.9	6093.1	5947.5	5773.8	5576.6	5355.9	5118.0	4861.3
22.5°	6723.8	6705.1	6648.7	6557.9	6434.3	6276.2	6090.0	5878.7	5643.9	5388.8	5118.0
20°	7057.2	7036.9	6979.0	6883.5	6755.1	6587.7	6390.5	6163.5	5913.1	5643.9	5355.9
17.5°	7357.7	7337.4	7276.3	7177.7	7057.2	6871.0	6667.5	6428.0	6163.5	5878.7	5576.6
15°	7622.2	7600.3	7537.7	7439.1	7301.4	7126.1	6911.7	6667.5	6390.5	6090.0	5773.8
12.5°	7847.6	7825.7	7761.5	7662.9	7520.5	7345.2	7126.1	6871.0	6587.7	6276.2	5947.5
10°	8026.0	8004.1	7943.1	7849.2	7702.1	7520.5	7301.4	7057.2	6755.1	6434.3	6093.1
7.5°	8154.4	8134.0	8077.7	7983.8	7849.2	7662.9	7439.1	7177.7	6883.5	6557.9	6208.9
5°	8251.4	8227.9	8171.6	8077.7	7943.1	7761.5	7537.7	7276.3	6979.0	6648.7	6293.4
2.5°	8318.7	8290.6	8227.9	8134.0	8004.1	7825.7	7600.3	7337.4	7036.9	6705.1	6346.6
0°	8337.5	8318.7	8251.4	8154.4	8026.0	7847.6	7622.2	7357.7	7057.2	6723.8	6363.9

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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	56.3	56.3	54.8	53.2	51.6	48.5	47.0	45.4	43.8	40.7	39.1
85°	119.0	115.8	112.7	109.6	104.9	101.7	97.0	93.9	89.2	84.5	79.8
82.5°	187.8	183.1	176.9	172.2	165.9	158.1	151.8	144.0	136.2	129.9	122.1
80°	262.9	255.1	247.3	239.5	230.1	220.7	211.3	201.9	190.9	180.0	169.0
77.5°	344.3	333.4	322.4	309.9	298.9	286.4	273.9	261.4	247.3	233.2	219.1
75°	435.1	421.0	405.4	389.7	375.6	358.4	341.2	324.0	305.2	288.0	269.2
72.5°	533.7	516.5	497.7	478.9	458.6	436.7	414.8	391.3	369.4	347.5	324.0
70°	640.1	619.8	596.3	572.8	547.8	521.2	494.6	466.4	438.2	410.1	381.9
67.5°	754.4	729.4	701.2	673.0	641.7	610.4	579.1	546.2	511.8	477.4	444.5
65°	876.5	845.2	812.3	776.3	740.3	704.3	666.8	627.6	588.5	547.8	511.8
62.5°	1012.6	973.5	931.3	887.4	846.7	802.9	762.2	713.7	666.8	621.4	576.0
60°	1170.7	1119.1	1067.4	1012.6	961.0	904.7	854.6	801.4	748.1	696.5	643.3
57.5°	1347.6	1281.9	1219.2	1153.5	1084.6	1022.0	957.9	893.7	834.2	773.2	715.3
55°	1547.9	1468.1	1389.8	1308.5	1228.6	1150.4	1069.0	997.0	923.4	854.6	787.3
52.5°	1767.0	1676.3	1579.2	1486.9	1385.1	1288.1	1197.3	1106.6	1020.5	937.5	860.8
50°	2001.8	1895.4	1784.3	1671.6	1555.8	1441.5	1331.9	1225.5	1125.3	1028.3	937.5
47.5°	2246.0	2125.5	1998.7	1870.3	1746.7	1607.4	1475.9	1355.4	1234.9	1125.3	1020.5
45°	2496.4	2360.2	2220.9	2075.4	1929.8	1779.6	1634.0	1486.9	1355.4	1225.5	1106.6
42.5°	2754.6	2601.3	2446.3	2285.1	2123.9	1959.6	1795.2	1634.0	1475.9	1331.9	1197.3
40°	3020.7	2851.7	2674.8	2499.5	2327.4	2139.5	1959.6	1779.6	1607.4	1441.5	1288.1
37.5°	3286.8	3102.1	2911.2	2714.0	2516.7	2327.4	2123.9	1929.8	1746.7	1555.8	1385.1
35°	3554.4	3351.0	3144.4	2929.9	2714.0	2499.5	2285.1	2075.4	1870.3	1671.6	1486.9
32.5°	3823.6	3601.4	3372.9	3144.4	2911.2	2674.8	2446.3	2220.9	1998.7	1784.3	1579.2
30°	4088.1	3847.1	3601.4	3351.0	3102.1	2851.7	2601.3	2360.2	2125.5	1895.4	1676.3
27.5°	4346.4	4088.1	3823.6	3554.4	3286.8	3020.7	2754.6	2496.4	2246.0	2001.8	1767.0
25°	4595.3	4319.8	4036.5	3750.1	3465.2	3181.9	2901.8	2623.2	2360.2	2103.5	1857.8
22.5°	4830.0	4538.9	4240.0	3936.3	3631.1	3332.2	3037.9	2748.4	2468.2	2199.0	1940.8
20°	5055.4	4743.9	4440.3	4108.5	3789.2	3474.6	3166.3	2862.6	2566.8	2286.7	2015.9
17.5°	5260.4	4933.3	4601.5	4268.1	3933.2	3603.0	3280.5	2978.5	2657.6	2366.5	2087.9
15°	5445.1	5103.9	4756.5	4410.6	4061.5	3718.8	3383.8	3058.3	2740.6	2438.5	2150.5
12.5°	5606.3	5252.6	4892.6	4534.2	4175.8	3820.5	3474.6	3138.1	2812.6	2499.5	2203.7
10°	5739.4	5377.8	5006.9	4637.5	4269.7	3905.0	3548.2	3205.4	2872.0	2551.2	2247.5
7.5°	5847.4	5476.4	5099.2	4718.9	4343.3	3970.8	3607.7	3257.1	2919.0	2590.3	2282.0
5°	5924.1	5548.4	5165.0	4776.8	4396.5	4019.3	3649.9	3294.6	2951.9	2618.5	2307.0
2.5°	5972.6	5606.3	5218.2	4825.3	4440.3	4058.4	3684.3	3324.4	2978.5	2642.0	2327.4
0°	5988.2	5606.3	5218.2	4825.3	4440.3	4058.4	3684.3	3324.4	2978.5	2642.0	2327.4

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CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	37.6	34.4	31.3	29.7	26.6	25.0	21.9	18.8	17.2	14.1	11.0
85°	75.1	68.9	64.2	59.5	54.8	48.5	43.8	39.1	32.9	28.2	21.9
82.5°	114.3	106.4	98.6	90.8	83.0	75.1	65.7	57.9	50.1	42.3	32.9
80°	158.1	145.6	134.6	123.6	112.7	101.7	89.2	78.3	65.7	54.8	43.8
77.5°	203.5	189.4	173.7	158.1	142.4	128.3	112.7	98.6	84.5	68.9	54.8
75°	252.0	233.2	216.0	195.6	176.9	156.5	137.7	119.0	101.7	84.5	65.7
72.5°	302.1	278.6	255.1	233.2	209.7	186.3	164.3	140.9	119.0	98.6	78.3
70°	353.7	325.5	297.4	270.8	244.2	216.0	190.9	164.3	137.7	112.7	89.2
67.5°	408.5	375.6	342.8	308.3	278.6	247.3	216.0	186.3	156.5	128.3	101.7
65°	468.0	428.8	388.2	352.2	313.0	278.6	244.2	209.7	176.9	142.4	112.7
62.5°	529.0	483.6	438.2	392.9	352.2	308.3	270.8	233.2	195.6	158.1	123.6
60°	591.6	540.0	488.3	438.2	388.2	342.8	297.4	255.1	216.0	173.7	134.6
57.5°	655.8	597.9	540.0	483.6	428.8	375.6	325.5	278.6	233.2	189.4	145.6
55°	721.5	655.8	591.6	529.0	468.0	408.5	353.7	302.1	252.0	203.5	158.1
52.5°	787.3	715.3	643.3	576.0	511.8	444.5	381.9	324.0	269.2	219.1	169.0
50°	854.6	773.2	696.5	621.4	547.8	477.4	410.1	347.5	288.0	233.2	180.0
47.5°	923.4	834.2	748.1	666.8	588.5	511.8	438.2	369.4	305.2	247.3	190.9
45°	997.0	893.7	801.4	713.7	627.6	546.2	466.4	391.3	324.0	261.4	201.9
42.5°	1069.0	957.9	854.6	762.2	666.8	579.1	494.6	414.8	341.2	273.9	211.3
40°	1150.4	1022.0	904.7	802.9	704.3	610.4	521.2	436.7	358.4	286.4	220.7
37.5°	1228.6	1084.6	961.0	846.7	740.3	641.7	547.8	458.6	375.6	298.9	230.1
35°	1308.5	1153.5	1012.6	887.4	776.3	673.0	572.8	478.9	389.7	309.9	239.5
32.5°	1389.8	1219.2	1067.4	931.3	812.3	701.2	596.3	497.7	405.4	322.4	247.3
30°	1468.1	1281.9	1119.1	973.5	845.2	729.4	619.8	516.5	421.0	333.4	255.1
27.5°	1547.9	1347.6	1170.7	1012.6	876.5	754.4	640.1	533.7	435.1	344.3	262.9
25°	1624.6	1410.2	1219.2	1050.2	904.7	779.4	662.1	550.9	447.6	353.7	269.2
22.5°	1695.0	1465.0	1263.1	1086.2	934.4	801.4	680.8	566.6	460.2	363.1	275.5
20°	1759.2	1521.3	1308.5	1122.2	962.6	823.3	696.5	580.7	471.1	370.9	281.7
17.5°	1821.8	1573.0	1349.2	1155.1	986.0	842.0	712.1	591.6	480.5	377.2	286.4
15°	1875.0	1618.4	1385.1	1183.2	1008.0	857.7	724.7	602.6	488.3	383.5	289.6
12.5°	1922.0	1657.5	1416.5	1206.7	1025.2	871.8	737.2	612.0	496.1	388.2	294.2
10°	1959.6	1688.8	1441.5	1227.1	1040.8	882.7	745.0	619.8	500.8	392.9	297.4
7.5°	1989.3	1713.8	1461.8	1241.2	1051.8	892.1	752.8	624.5	505.5	396.0	302.1
5°	2011.2	1732.6	1475.9	1252.1	1061.2	903.1	762.2	632.3	511.8	400.7	302.1
2.5°	2028.4	1746.7	1486.9	1261.5	1067.4	903.1	762.2	632.3	511.8	400.7	302.1
0°	2028.4	1746.7	1486.9	1261.5	1067.4	903.1	762.2	632.3	511.8	400.7	302.1

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.8	6.3	3.1	0.0
85°	17.2	11.0	6.3	0.0
82.5°	25.0	17.2	7.8	0.0
80°	32.9	21.9	11.0	0.0
77.5°	42.3	28.2	14.1	0.0
75°	50.1	32.9	17.2	0.0
72.5°	57.9	39.1	18.8	0.0
70°	65.7	43.8	21.9	0.0
67.5°	75.1	48.5	25.0	0.0
65°	83.0	54.8	26.6	0.0
62.5°	90.8	59.5	29.7	0.0
60°	98.6	64.2	31.3	0.0
57.5°	106.4	68.9	34.4	0.0
55°	114.3	75.1	37.6	0.0
52.5°	122.1	79.8	39.1	0.0
50°	129.9	84.5	40.7	0.0
47.5°	136.2	89.2	43.8	0.0
45°	144.0	93.9	45.4	0.0
42.5°	151.8	97.0	47.0	0.0
40°	158.1	101.7	48.5	0.0
37.5°	165.9	104.9	51.6	0.0
35°	172.2	109.6	53.2	0.0
32.5°	176.9	112.7	54.8	0.0
30°	183.1	115.8	56.3	0.0
27.5°	187.8	119.0	56.3	0.0
25°	192.5	122.1	57.9	0.0
22.5°	197.2	123.6	59.5	0.0
20°	201.9	126.8	61.0	0.0
17.5°	205.0	128.3	61.0	0.0
15°	208.2	129.9	64.2	0.0
12.5°	209.7	131.5	64.2	0.0
10°	212.9	134.6	64.2	0.0
7.5°	216.0	134.6	64.2	0.0
5°	216.0	134.6	64.2	0.0
2.5°	216.0	134.6	64.2	0.0
0°	216.0	134.6	64.2	0.0

(END OF REPORT)